AMENDMENTS

In the Claims:

1. (Currently amended) A surface analysis device for identifying molecules by simultaneously scanning nanocodes on a surface of a substrate, comprising:

a scanning array <u>configured to eapable of</u> simultaneously <u>scan</u> <u>scanning</u> the nanocodes on the surface of the substrate; and an analyzer coupled with the scanning array <u>configured to receive</u> <u>eapable of receiving</u> simultaneously scanned information from the scanning array and utilizing the simultaneously scanned information to identify molecules associated with the nanocodes.

- 2. (Original) The device of claim 1, wherein simultaneously scanning includes measuring the friction characteristics of the substrate and the nanocodes.
- 3. (Original) The device of claim 2, wherein the scanning array includes two or more atomic force microscopy (AFM) tips.
 - 4. (Original) The device of claim 3, wherein the scanning array is a 3x3 array of AFM tips.

Claims 5-11. (Canceled).

- 12. (Original) The device of claim 1, wherein the molecules include DNA molecules.
- 13. (Original) The device of claim 1, further comprising a substrate holder.

14. (Original) The device of claim 1, wherein the nanocodes include molecular assay labels.

15. (Currently amended) A surface analysis device for identifying molecules by simultaneously scanning nanocodes on a surface of a substrate, comprising:

a substrate holder; a scanning array proximate the substrate holder <u>configured to move</u> eapable of moving in relation to the substrate holder and simultaneously <u>scan scanning</u> nanocodes on the surface of the substrate; and an analyzer coupled with the scanning array <u>capable of receiving configured to simultaneously scanned information from the scanning array and utilizing the simultaneously scanned information to identify molecules associated with the nanocodes.</u>

Claims 16-19. (Canceled).

20. (Currently amended) A method of identifying characteristics or properties of molecules by simultaneously scanning nanocodes on a surface of a substrate, comprising:

providing a substrate with nanocodes thereon; and simultaneously scanning the nanocodes using a surface analysis device having a scanning array.

21. (Original) The method of claim 20, further comprising: receiving the scanned information from the scanning array with an analyzer; and identifying the molecules associated with the nanocodes.

22. (Original) The method of claim 20, wherein simultaneously scanning includes measuring the friction characteristics of the substrate and the nanocodes.

- 23. (Original) The method of claim 22, wherein the scanning array includes two or more atomic force microscopy (AFM) tips.
- 24. (Original) The method of claim 23, wherein the scanning array is a 3x3 array of AFM tips.

Claims 25-29. (Canceled).

- 30. (Previously presented) The method of claim 20, wherein the nanocodes include one or more nanotube assemblies having organic elements.
- 31. (Previously presented) The method of claim 20, wherein the nanocodes include one or more nanotube assemblies having inorganic elements.
- 32. (Previously presented) The method of claim 20, wherein the nanocodes include one or more nanotube assemblies having biochemical elements.
- 33. (Original) A method of accelerated scanning of nanocodes on a substrate to identify molecules associated with the nanocodes, comprising:

simultaneously scanning the nanocodes using a scanning array having two or more microscopy tips;

receiving the simultaneously scanned information from the scanning array with an analyzer; and

identifying the molecules associated with the nanocodes.

- 34. (Original) The method of claim 33, wherein the microscopy tips are scanning tunneling microscopy (STM) tips.
- 35. (Original) The method of claim 33, wherein the microscopy tips are atomic force microscopy (AFM) tips.
- 36. (Original) The method of claim 33, wherein the microscopy tips are a combination of atomic force microscopy (AFM) and scanning tunneling microscopy (STM) tips.
- 37. (Original) The method of claim 33, wherein simultaneously scanning includes parallel scanning by the scanning array.